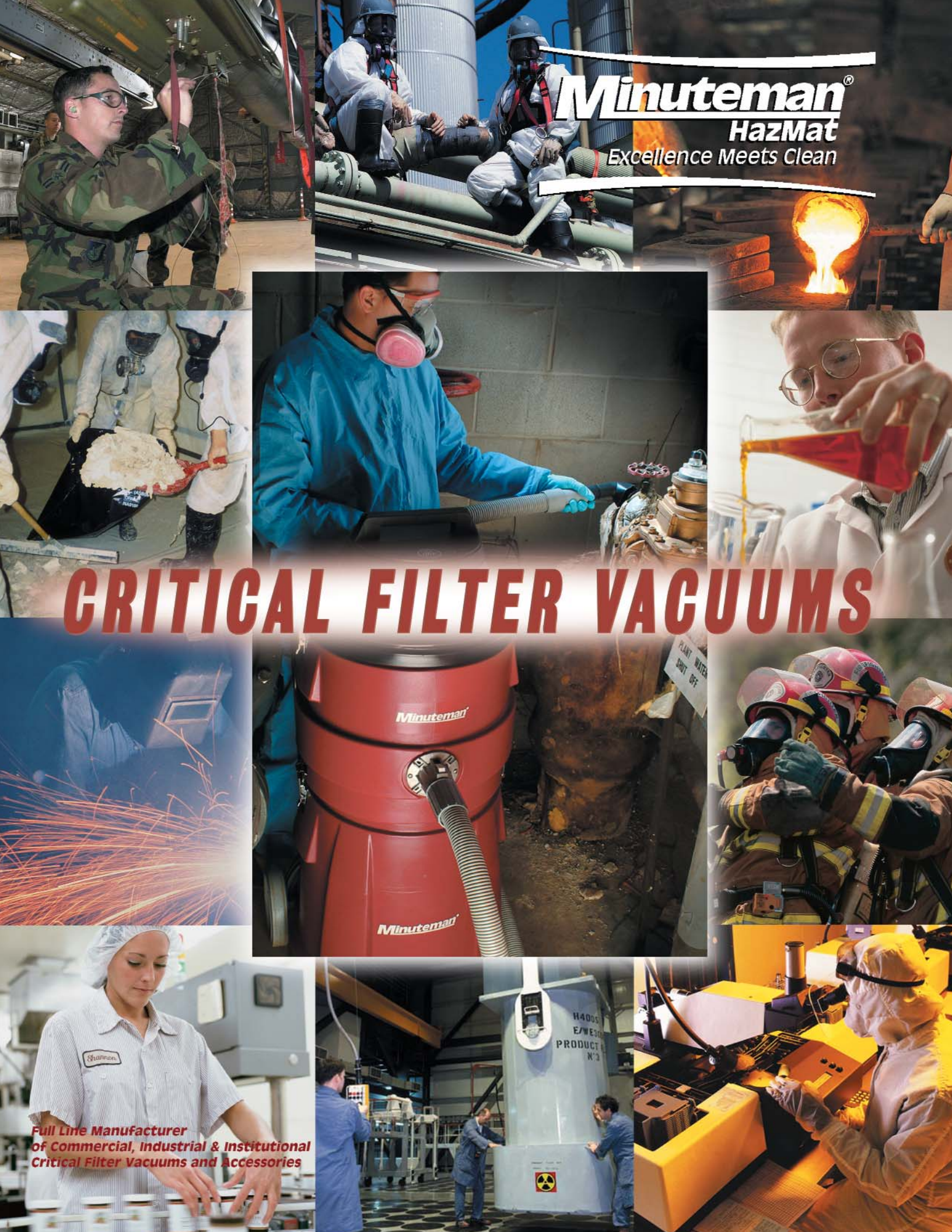
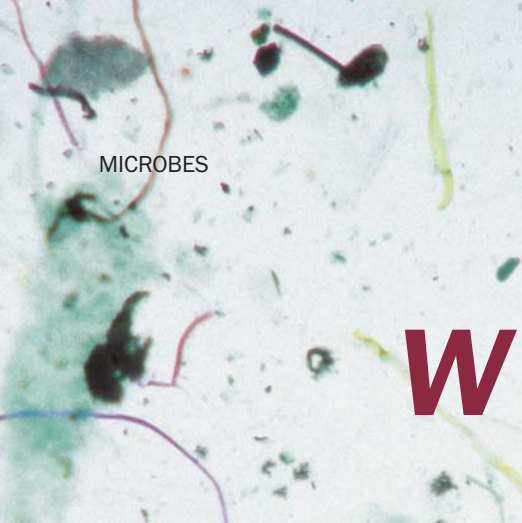


Minuteman[®]
HazMat
Excellence Meets Clean

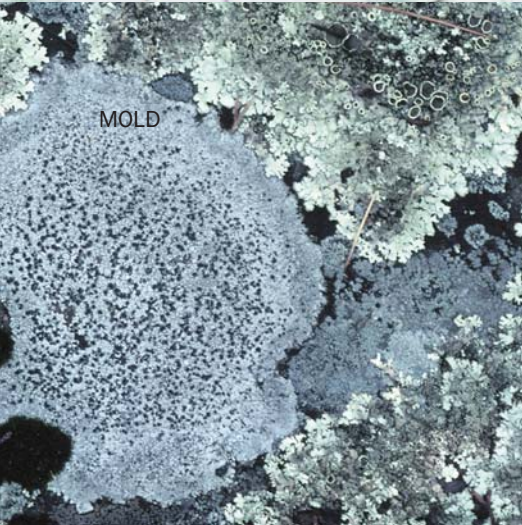


CRITICAL FILTER VACUUMS

**Full Line Manufacturer
of Commercial, Industrial & Institutional
Critical Filter Vacuums and Accessories**



MICROBES



MOLD



POWDER



ASBESTOS

WHEN CLEANING

Minuteman offers many sizes and configurations of Critical Filter Vacuum

Systems for safely trapping and containing asbestos, lead, mold, mercury, nuclear waste, and other potentially hazardous materials. Minuteman Critical Filter Vacuums are the safest and most reliable way to collect contaminants. Each model contains multiple stages of filtration up to 99.999%, efficient at .12 microns. Filters are tested in accordance with IEST-RP-CC007 standards.

Vacuums are approved for use in Class I (ISO3) clean rooms,



X-829 VACUUM

GETS CRITICAL

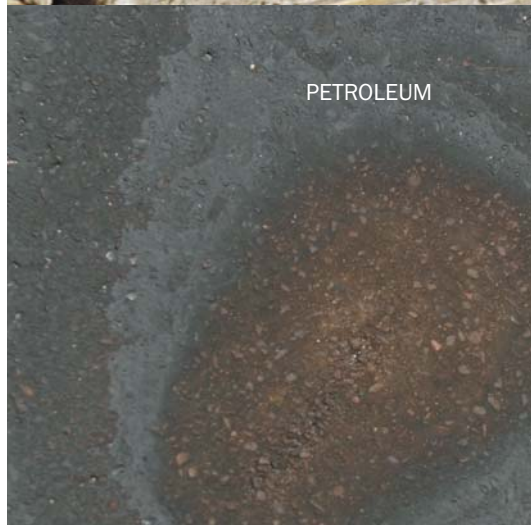


H.E.P.A. BACK PACK VACUUM

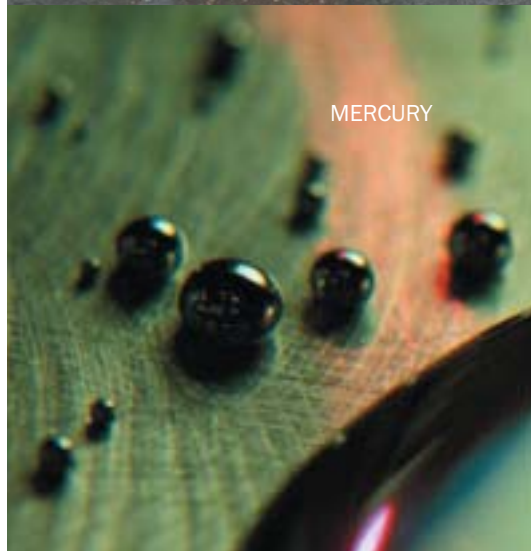
electronic assembly areas,
laboratories, nuclear power
plants, hospitals, or
wherever there is a need
to contain hazardous
material and prevent its
escape into the
environment. Almost any
size—from 4 to 55
gallons—and any configuration
—wet, dry or both—can be adapted to
your particular need. Options include:
Electric or air power, 115/220 volts,
stainless steel, electro-static painted
steel or polyethylene tanks,
manometer, and 95 to 200 C.F.M.
airflow. A wide variety of 1-1/4, 1-1/2,
2, and 3 inch tools and attachments
are available for every application.



DUST



PETROLEUM



MERCURY



METAL SHAVINGS



BIO-TERRORISM SHIPBUILDING CLEAN ROOM AUTOMOTIVE LABORATORY STEEL MILLS CRITICAL ENVIRONMENT
CLEANING FOOD INDUSTRY POWDER PAINT PHARMACEUTICAL OIL RECOVERY PETRO-CHEMICAL

BPV H.E.P.A. BACK PACK VACUUM

- Lightweight and portable, goes virtually anywhere.
- Four stage filtration.
- Ergonomically designed to reduce operator fatigue.
- H.E.P.A. filters out air contaminants including: asbestos, lead and mold.
- Easy filter replacement.
- H.E.P.A. filter is 99.97% efficient at .3 microns.



CRITICAL ENVIRONMENT VACUUM

CRITICAL ENVIRONMENT VACUUMS

- Motor cooling air recirculation device assures all air is U.L.P.A. (Ultra Low Penetration Air) filtered before it is exhausted back into the environment.
- Designed for use in Class I (ISO3) to 100,000 clean rooms, biological and pharmaceutical research laboratories.
- Equipped with an U.L.P.A. filter that is 99.999% efficient at .12 microns.
- Motor-cooling air is exhausted without turbulence.
- Available in 4, 15, 30, and 55 gallon tank sizes.



MERCURY RECOVERY VACUUM SYSTEMS

- Specially adapted critical filter vacuum systems for the recovery of elemental mercury and mercury contaminated particulates and liquid materials.
- Modular 4 unit systems allows user tailoring to fit any particular need.
- MRS-6 is a compact, easy to handle vacuum system that effectively cleans small spills in confined areas.
- MRS-2 and MRS-3 are 99.999% efficient at .12 microns with U.L.P.A. filter.



H.E.P.A. BACK PACK VACUUM

X-829 VACUUM SERIES

- Easy, economical hazardous material removal vacuum with a self-sealing intake insures a positive vacuum seal.
- Contains 5 stage filtration for dry recovery . . . 4 when used for wet pick up.
- Conform to all EPA and OSHA guidelines and requirements for cleaning asbestos and other hazardous materials.
- U.L.P.A. filter is 99.999% efficient at .12 microns.
- Available in 6 and 15 gallon tank sizes.



LEAD VACUUM

- Designed for the removal of lead dust, paint chips and other hazardous materials.
- Lid assembly equipped with auxiliary receptacle for use with optional powerhead.
- Easy-to-use, lightweight vacuum is simple to maintain. With normal use and proper maintenance of pre-filter, the U.L.P.A. will provide years of service.
- Comes complete with dry tool kit 1-1/4"(3 cm)
- U.L.P.A. filter is 99.999% efficient at .12 microns



AIR OPERATED VACUUMS

- Compressed, air-powered vacuums with exceptionally high static lift and CFM for recovering solid or liquid materials.
- No motors, cords or moving parts mean continuous service eliminating costly and inconvenient maintenance.
- Each model is equipped with a silencer which reduces noise levels.
- Ideal for areas where standard voltage is not available.
- Available in 4, 6, 15, 30, and 55 gallon tank sizes.
- H.E.P.A. filtered models available.





TRACTORS NUCLEAR ELECTRONIC MANUFACTURING COMBUSTIBLE DUST LIFE SCIENCES MI
EMERGENCY RESPONSE MUNICIPALITIES TOXIC GAS HEALTH & WELLNESS REMEDIATION U

X250-TP SERIES VACUUMS

- For higher volume hazardous material recovery.
- 2 x 2.3 HP motors.
- 200 CFM (5.664 m³/min.).
- Available in dry and wet/dry units.
- Dry unit allows for safe recovery of most dry, hazardous dusts and nontoxic fine powders.
- Wet unit allows for recovery of contaminated water and other liquids.
- Shown with optional transfer system.
- 99.97% efficient at 0.3 microns with H.E.P.A. filter.



X-829 VACUUM SERIES

X-839 SERIES VACUUMS

- Heavy duty industrial vacuum series available with polyethylene, stainless steel, or painted tanks.
- Polished aluminum lid assembly is equipped with clogged filter warning light.
- Patented durable self sealing intake system prevents leaks, improving overall vacuum performance.
- Available in 6, 15, 30, and 55 gallon sizes.
- 6 mil plastic drum liners may be used to safely contain large volume clean-ups.
- 99.999% efficient at .12 microns with U.L.P.A. filter.



FLAMMABLE LIQUID RECOVERY VACUUM

- Wet pick up only.
- Specifically designed for the recovery of jet fuel and other flammable liquids.
- AIR OPERATED vacuum with high static lift and CFM for recovering large amounts of liquid debris quickly and safely.
- Ideal for locations where electricity is not available.
- Ships complete with special 25' x 1-1/2" grounded nitrite core vacuum hose.
- Explosion proof operation handle and 14" floor squeegee tool included.





EXPLOSION/DUST IGNITION PROOF SERIES VACUUMS

- UL listed for use in Class I - Group D atmospheres, Class II - Group F and G atmospheres.
- Constructed of 22 gauge, non-sparking stainless steel.
- Static-conductive casters and wheels.
- Available in 15 gallon (57 liter) and 55 gallon (76 liter) sizes.
- Optional U.L.P.A. filter - 99.999% efficient at .12 microns.



EXPLOSION/DUST IGNITION PROOF SERIES

ALLERGY VACUUM

- Effectively contains dust to help relieve allergies, asthma and other respiratory ailments.
- Easy to use and maintain. With normal use and proper maintenance of pre-filter, the H.E.P.A. type filter will provide years of trouble-free service.



- Very quiet 68 db, weights only 16 lbs.
- Comes complete with dry tool kit 1-1/4"(3 cm)
- 99.97% efficient at .3 microns with H.E.P.A. type filter.

BIO-HAZ VACUUMS

- Choice of 6 gal. (22 liter) or 15 gal. (57 liter) tank available in polyethylene.
- U.L.P.A. filter provides 99.999% efficiency at .12 microns.
- Remediation of hazardous molds, spores, bio-haz dust and viral particulate containment.



PRODUCT SPECIFICATIONS

Specifications	Model C82904-04 Allergy Vac	Model C82907-00 Bio-Haz Vac	Model C82917-00 Bio-Haz Vac	Model C80704-01 CRV	Model C82985-06 Lead Vacuum
Tank Size	4 gal. (15 ltr.)	6 gal. (22 ltr.)	15 gal. (57 ltr.)	4 gal. (15 ltr.)	6 gal. (22 ltr.)
Power	1.25 hp (.93 kw)	1.25 hp (.93 kw), 2-stage	2 hp (1.49 kw), 2-stage	1.1 hp (.82 kw)	1.25 hp
Dry Capacity (Bag)	.34 cu. ft. (.01 m ³ /min.)	.34 cu. ft. (.01 m ³ /min.)	.73 cu. ft. (.02 m ³ /min.)	.34 cu. ft. (.01 m ³ /min.)	.34 cu. ft. (.01 m ³ /min.)
CFM	95 (2.69 m ³)	95 (2.69 m ³)	110 (3.1 m ³)	99 (2.8 m ³)	95 (2.69 m ³)
Static Lift	85" (2,160 mm)	85" (2,160 mm)	105" (2,667 mm)	88" (2,235 mm)	85" (2,160 mm)
Filter and Efficiency Rating	H.E.P.A. type 99.97% efficient at .3 microns	U.L.P.A. 99.999% efficient at .12 microns	U.L.P.A. 99.999% efficient at .12 microns	U.L.P.A. 99.999% efficient at .12 microns	U.L.P.A. 99.999% efficient at .12 microns
DbA Rating	68	72	72	65	74
Voltage	115 (220)	115 (220)	115 (220)	115 (220)	115 (220)
Wheels	N/A	N/A	2 - 8" (20.32 cm)	(Rear) 6" (15 cm)	N/A
Casters	4 - 2" (5 cm)	4 - 2" (5 cm)	2 - 3" (7.62 cm)	(Front) 3" (8 cm)	4 - 2" (5 cm)
Cord	40' (12 m)	16 - 3, 50' (16 - 3, 15 m)	16 - 3, 50' (16 - 3, 15 m)	16 - 3, 50' (16-3, 15m)	16 - 3, 50' (16-3, 15 m)
Weight	16 lbs. (7 kg)	17 lbs. (8 kg)	67 lbs. (30 kg)	(w/wheels) 26 lbs. (12 kg) (w/o wheels) 19 lbs. (9 kg)	17 lbs. (8 kg)

Specifications	X829 Model C82915-06	X839 Model C83905-01
Wet Capacity	13 gal. (49 ltr.)	12 gal. (45 ltr.)
Dry Capacity (Bag)	.73 cu. ft. (.02 m ³)	.73 cu. ft. (.02 m ³)
Tank Size	15 gal. (57 ltr.)	15 gal. (57 ltr.)
Voltage	115 (220)	115 (220)
Air Flow	110 CFM (3.1 m ³ /min.)	95 CFM (2.7 m ³ /min.)
Water lift	105" (2,670 mm)	85" (2,159 mm)
H.E.P.A. Filter Area	1,224 sq. in. (7,897 cm ²)	1,224 sq. in. (7,897 cm ²)
H.E.P.A. Filter Efficiency Rating	U.L.P.A. 99.999% efficient at .12 microns	U.L.P.A. 99.999% efficient at .12 microns
Weight	87 lbs. (39 kg)	63 lbs. (29 kg)

Specifications	Model C87355-01 Flammable Liquid Recovery Vacuum
Wet Capacity	45 gal. (170 ltr.)
Dry Capacity (Bag)	7.16 cu. ft. (.2 m ³)
Tank Size	55 gal. (208 ltr.)
Static Lift	180+ inches (4,572 mm)
Air Flow	182+ CFM (5.1 m ³ /min..)
Airline Size	1/2 inch (12.7 mm)
Input Pressure	100 P.S.I. (7 Bar)
Input Air (CFM)	46 (1.3 m ³ /min..)
Wheel Size	4 - 5" (12.7 cm)
Weight	181 lbs. (82 kg)

Specifications	X705 Air Vacuum Model C87515-05
Tank Size	15 gal. (57 ltr.)
Wet Capacity	10 gal. (38 ltr.)
Dry Capacity (Bag)	.73 cu. ft. (.02 m ³ /min.)
U.L.P.A. Filter Efficiency Rating	99.999% efficient at .12 microns
Static Lift	180" (4,572 mm)
Air Flow	166 CFM (4.7 m ³ /min.)
Air Line	1/2" (1.2 cm)
Input Pressure	90 P.S.I. (7 Bar)
Input Air	42 CFM (1.1 m ³ /min.)
Venturi	Single Jet
Hose Connection	1/2" Quick Coupler
Wheel Size	Front: 3" (8 cm) Rear: 8" (20 cm)
Weight	51 lbs. (23 kg)

Specifications	BPV Model C84790-00
Motor	1.6 hp
CFM	122
Water lift	100" (254 cm)
Capacity	1.5 gal (5.7 liters)
DbA Rating	68
Amps	10
Voltage	115 (220)
H.E.P.A. Filter	99.97% efficient at .3 microns
Power Cord	50' (15 m)
Weight	13.5 lbs (6.1 kg)
Height	22" (56 cm)
Diameter	8" (20 cm)
Construction	Injection Molded Polyethylene
Accessories	Telescopic Wand, 14" (36 cm) Floor Tool and 5' (1.5 cm) Hose

Specifications	Model C83015-01 MRS-3	Model C86006-11 MRS-6
Dry Capacity (Bag)	.73 cu. ft. (.02 m ³ /min..)	.34 cu. ft.
Charcoal Filter Area	4,400 sq. in. (28,387cm ²)	552 sq. in. (3,561 cm ²)
U.L.P.A. Filter	99.999% Efficient at 0.12 microns	N/A
Static Lift	110" (2,794 mm)	88"
Air Flow	115 CFM (3.25 m ³ /min.)	95 cfm
Power	1480 watts	1480 watts
Voltage	115 (220)	115 (220)
Cord	16 - 3, 50' (16-3, 15 m)	16 - 3, 50' (16-3, 15 m)
Wet/Dry	N/A	N/A
Wheel Size	Front: 3" (8 cm) Rear: 8" (20 cm)	Optional
Height	46" (116 cm)	25" (63 cm)
Width	21" (53 cm)	21" (53 cm)
Weight	78 lbs. (35.5 kg)	24-1/2 lbs. (11 kg)

Specifications	X-1000 Model C80115-01	MX-1000 Model C80215-01
Static Lift	130" (3,302 mm)	130" (3,302 mm)
CFM	100 (2.83 m ³)	100 (2.83 m ³)
Power	2 hp (1.49 kw)	2 hp (1.49 kw)
Cord	16 - 3, 50' (16 - 3, 15 mm)	16 - 3, 50' (16 - 3, 15 mm)
Wet Capacity	N/A	12 gal. (45 ltr.)
Dry Capacity (Bag)	.73 gal.	2.1 gal. (8 ltr.)
Filter Area	2520 sq. in. (7,897 cm ²)	2520 sq. in. (7,897 cm ²)
Filter and Efficiency Rating	H.E.P.A., 99.97% efficient at .3 microns	H.E.P.A., 99.97% efficient at .3 microns
Voltage	115 (220)	115 (220)
Wet/Dry	N/A	Yes
Dry Only	Yes	Optional
Weight	76 lbs. (35 kg)	100 lbs. (46 kg)
Height	35" (89 cm)	45" (114 cm)
Width	21" (53 cm)	21" (53 cm)

Specifications	Explosion Proof/Dust Ignition Proof Model C88015-03	Explosion Proof/Dust Ignition Proof Model C88055-04
Water lift	69" (1,753 mm)	69" (1,753 mm)
Airflow (CFM)	120 (3.40 m ³ /min.)	120 (3.40 m ³ /min.)
Horsepower	1.7 hp, peak (1.27 kw)	1.7 hp, peak (1.27 kw)
Voltage	115 (220)	115 (220)
Power Cord	14 - 3, 50' (15 m)	14 - 3, 50' (15 m)
Total Filter Area	1,769 sq. in. (11,413 cm ²)	1,769 sq. in. (11,413 cm ²)
U.L.P.A. Filter Area	1,224 sq. in. (7,897 cm ²)	1,224 sq. in. (7,897 cm ²)
U.L.P.A. Filter Efficiency Rating	99.999% efficient at .12 microns	99.999% efficient at .12 microns
Number of Pre-Filters	2	2
Tank Size	15 gal. (57 ltr.)	55 gal. (208 ltr.)
Wet/Dry	Dry Only	Wet/Dry
Wet Capacity	N/A	47 gal. (178 ltr.)
Dry Capacity	1.9 cu. ft. (.05 m ³)	7.15 cu. ft. (.202 m ³)
Manometer	Yes	Yes
Wheel Size	Front: 3" (8 cm) Rear: 8" (20 cm)	Front: 5" (12.7 cm) Rear: 5" (12.7 cm)
Weight	84 lbs. (38 kg)	164 lbs. (74 kg)

SOLD & SERVICED BY:

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Minuteman is a full line manufacturer of sweepers and scrubbers; as well as critical filter vacuums, industrial and commercial vacuums, floor and carpet machines, and litter vacuums for commercial and institutional facilities, whereas PowerBoss is a full line manufacturer of sweepers and scrubbers for industrial facilities.